

# ANZBIG Newsletter

*Global leaders in the sustainable production and use of biochar*

## CEO MESSAGE

Dear Members,

ANZBIG has had a busy month promoting the Biochar Industry.

In the last week of October, ANZBIG had its own trade stand promoting ANZBIG and the Biochar Industry at the Waste Expo Conference in Melbourne. Thanks to Shaun Scallan for organising and also thanks to the other ANZBIG members who represented ANZBIG on the stand. Shaun also chaired a panel discussion with several other ANZBIG members on “Enabling a Regulatory Framework for Biochar in a Circular Economy World”.

As I write this newsletter ANZBIG is attending the Carbon Farming Conference at Albury. We have a trade stand at this conference as well. Thanks to Tim Charlton ( Chair of the Education and Communications Committee) for organising our stand and representation. Our Chair, Melissa Rebbeck, is speaking on behalf of ANZBIG on all of the emission avoidance and carbon dioxide removal benefits of making (pyrolysis) and using biochar, and further economical benefits. Tim Charlton and Adam O, Toole (Standards and Certification Chair) are also presenting at the conference.

Development of an Australian Standard for Biochar has commenced with ANZBIG and Standards Australia. ANZBIG is providing the technical lead. Professor Stephen Joseph and Craig Bagnall, both Directors of ANZBIG are investing a significant amount of personal energy and time to lead this on ANZBIG’s behalf. The Standard is based around ANZBIG’s code of practice. A working group of over a dozen people, with representatives from the major regulators and other linked industries, are reviewing and contributing to the development. This is led by Stephen and Criag. We are hopeful that there will be an Australian Biochar Standard to use by mid to late 2026.

ANZBIG has continued its work with a small group of people to push for the production of Biochar as a recognised method for the Australian Carbon Credit Unit (ACCU) scheme. A review of the ACCU scheme has just been announced <https://consult.climatechangeauthority.gov.au/2026-accu-scheme-review> and ANZBIG will be making a submission on behalf of its members for Biochar production to be included.

Many of you would be aware Don Coyne stepped down from his role as CEO at the end of September. Many thanks to Don for his tireless work over the years. The Board at their meeting in October agreed to make him an Honorary Life Member for his services.

A search for a new CEO has commenced and we have been overwhelmed with the number and quality of applicants.

The Board asked me to step in as Interim CEO with Shaun Scallan assisting. Thanks to Shaun and also Sam Zagami for their support and work.

I remind all members that with the transition to the new membership system members must log in to the website when they get their membership renewal and enter their credit card details to pay or pay by bank transfer. Membership fees are the life blood for us to advocate and promote the industry for our members. Please renew promptly.

Warm Regards  
Phillip Henshall  
Interim CEO

## In This Issue

**ANZBIG  
AGM  
Dec 3 2025**

**BIOSORRA To  
Scale Biochar  
Production In  
Kenya With New  
\$3.5M In Seed  
Funding**

**Turning Australia’s  
food waste into  
biochar: a  
sustainable  
solution for  
climate and soil**

**Transforming  
Australian  
Agriculture: 5  
Years Of  
Collaboration  
And Innovation**

**National  
Bioenergy  
Feedstock  
Strategy**

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# Member Spotlight

*Welcome New &  
Renewing Members*

Graphene



Carbon



**Become an  
ANZBIG Member**

**Join Now**



Pyrogreen is an innovative technology company specializing in advanced biomass carbonization and gasification systems that transform agricultural and forestry residues into clean energy and premium biochar. Its continuous carbonization technology delivers up to 30% biochar yield with fixed carbon content exceeding 90%, meeting leading international standards such as EBC and WBC.

Building on its core technology, Pyrogreen have developed the Biowatt system. Instead of burning diesel and natural gas, Biowatt units convert local biomass residues into clean syngas, which can be used directly for heating or for power generation via engines while producing 8% biochar simultaneously, providing a sustainable alternative to conventional energy sources.

Biowatt systems are currently being deployed across multiple regions including Indonesia, Malaysia, Taiwan, and Portugal, with significant expansion underway in Kenya. We are seeking long-term technology and project partners to accelerate the global deployment of our scalable, modular solutions.

Contact information:

Abby Lu (Overseas Sales Manager)

Phone: (86) 13075566506

Email: [abby.lu@pyrogreen-energy.com](mailto:abby.lu@pyrogreen-energy.com)



# ANZBIG News & Events

## Waste Expo 2025

An expanded Waste Expo in Melbourne this year kept staff and volunteers very busy at ANZBIG's stand.

Over 80 contacts were gathered and over 120 of the revised Introduction to Biochar - *ANZBIG Fact Sheet #1* were taken. We also created a *Why Join ANZBIG?* Brochure and provided key information from the Roadmap and a revised member logo sheet. The offer of a 15% discount has a few potential members on the hook, we will see if we can land them.

Thanks go to Sam Zagami and Shaun Scallan and volunteers Gordon Hirst, Matthew Griffin and Adrian Morphett for helping answer the many questions we had over the 2 days.

ANZBIG also hosted a Panel Discussion entitled Enabling a Regulatory Framework for Biochar in a Circular Economy World. Earth Systems Founder and Director Nigel Murphy was joined by Dr Mayuri Wijayasundara, CEO Anvarta, Jennifer Lauber Patterson MD Frontier Impact Group and the discussion was guided by ANZBIG Board Director Shaun Scallan.

Some of the key messages included:

- Make Carbon a critical mineral
- Move from a waste to resource driven circular economy
- Policy and Regulatory support could be a key enabler and this coupled with consistency across jurisdictions means investment surety. This includes all forms of development approvals and licencing.
- Chain of custody to demonstrate is a key MRV element that must not be forgotten
- We need cross sectoral collaboration to increase offtake.





# Biochar Industry Statistics Project

## Stage 1 - Survey

As part of the ANZBIG Biochar Industry Roadmap two of the working groups, Supply & Market Development and EdComms have collaborated on the creation of a Biochar Industry Survey. Stage 1 seeks to set a baseline for the industry providing volume and value data as well as CDR statistics.

This project is aimed at creating a snapshot of current biochar production levels. This data is crucial to demonstrate where the industry is to all stakeholders, but in particular policymakers.

We will also use this data, knowledge of the biochar project pipeline and relevant overseas industry growth rate to project industry size and value out into the future. Subsequent stages are planned to provide enhanced industry knowledge and understanding for our members and the industry as a whole.

Thanks go to Gus Cummings our Intern who has been responsible for putting the survey together under the guidance of Tim Charlton, Chair of the EDComms Working Group and Shaun Scallan, Chair of Supply and Market Development WG. The survey was reviewed internally by Board and other WG members and Chairs and externally validated before it was sent out.

If you are a member who hasn't filled in the survey please do so, the more input we have the more credible the survey results are.



## 2026 Expo & Conference

Planning is underway for next year's Expo and Conference, at this stage it is targeted for later in the year and we are just navigating conflicting events that may take attention and patronage from the event. The plan is to announce the venue and date before XMAS. Stay tuned.

Please be advised that the proceedings for this year's Biochar Expo have been compiled and peer reviewed and will be sent out to all attendees in coming weeks. Great to have a document where you can revisit the talks attendees enjoyed and those they could not make.

# AGM

Members were sent advice of this years AGM via email on the 6th November 2025.

The ANZBIG AGM will be held virtually on Dec 3rd 2025 at 4pm (EST).

At the AGM as well as presentation of the Financial Accounts, directors will be elected. All current directors except for Karen Enkelaar are willing to stand again.

We therefore will have no directors from Tasmania, Northern Territory or Queensland

If you wish to nominate to be elected to a Director please contact the Treasurer and Interim CEO Phillip Henshall to discuss by Tuesday 11th Nov. Phil can be reached via [treasurer@anzbig.org](mailto:treasurer@anzbig.org) or on 0419 308 391.



### Multi-Billion Industry by 2030

ANZBIG Roadmap

Indicative potential for converting Australia's 150 Million tons of bioresidue into biochar to assist Australian agriculture:

- \$12.13 Billion pa - Biochar value (95% of commodity)
- \$13.5 Billion pa - Biochar carbon credits revenue (20% value)
- \$4.8 Billion pa - Agricultural productivity gains
- \$14.5 Billion pa - Renewable energy savings
- \$12.5 Billion pa - Soil carbon growth value
- \$12.5 Billion pa - Water savings through 15% increase in soil carbon in 10% of ag land

Total Value \$13 billion dollars annually

**Global Biochar Production**

Region	2020	2025	2030
North America	1.5	2.5	3.5
Europe	1.0	1.5	2.0
Asia	0.5	1.0	1.5
Africa	0.2	0.5	0.8
South America	0.1	0.3	0.5
Australia	0.1	0.3	0.5
<b>Total</b>	<b>3.4</b>	<b>6.1</b>	<b>8.8</b>

### Who are ANZBIG?

- Over 100 members and growing with 20 plus multi-million dollar projects
- A very experienced Board of 16, plus 6 working groups and 70 volunteers
- Primarily funded to date by sponsorships, memberships, conferences and events
- Established and launched a biochar industry roadmap aligned with current government policies and the UN's SDGs
- Developed a range of educational materials including the highly awarded Farmer Guide to the production, use and application of biochar by Stephen Joseph and Paul Taylor
- Developed a Code of Practice for the production and use of biochar
- The Code of Practice is underpinning development of proposed AS 5848 Australian Standard for Creating Biochar, Biochar and Associated Products
- ANZBIG is the voice of the biochar industry and actively engages government on the development of policy that will support the creation of a Australian biochar industry

**Global leaders in the sustainable production and use of biochar**

[www.anzbig.org](http://www.anzbig.org)

### WHY JOIN ANZBIG?

ANZBIG membership connects you with the entire biochar ecosystem across Australia and New Zealand – including industry leaders, researchers, researchers, and policymakers.

**MEMBERSHIP BENEFITS**

Gain access to cutting edge industry intelligence, value your organisation's profile, and unlock collaboration opportunities that shape the future of biochar. Our panel of 200 members' network of interests in the biochar ecosystem.

We support and represent companies, institutions, and governments seeking to commercialise, scale, and develop biochar technologies and applications. Through education, research, and strategic alliances, we're creating impactful impact across carbon removal, sustainable agriculture, waste recovery, and more.

**Membership Benefits**

- Connect**
  - Connect with industry leaders
  - Access to industry intelligence
  - Networking opportunities
  - Access to industry events
  - Access to industry reports
  - Access to industry news
- Develop**
  - Access to industry intelligence
  - Access to industry reports
  - Access to industry news
  - Access to industry events
  - Access to industry research
- Support**
  - Access to industry intelligence
  - Access to industry reports
  - Access to industry news
  - Access to industry events
  - Access to industry research
- Research**
  - Access to industry intelligence
  - Access to industry reports
  - Access to industry news
  - Access to industry events
  - Access to industry research

**HOW TO JOIN**

Join us as an associate biochar industry to biochar the economy with leading soil and economic health and resilience across Australia and New Zealand.

To join and ANZBIG at [treasurer@anzbig.org](mailto:treasurer@anzbig.org)

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## ANZBIG Resources

Help us grow the biochar movement! Below are two key resources you can share with colleagues, partners, and anyone interested in learning more about biochar and ANZBIG's work.

### [Introduction to Biochar – Fact Sheet #1](#)

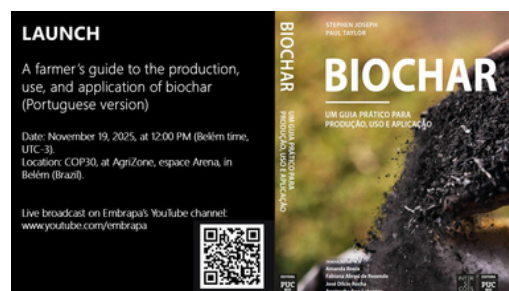
A clear, engaging overview of what biochar is, why it matters, and how it can transform industries across Australia and New Zealand. This fact sheet highlights the economic, environmental, and climate benefits of biochar — including Australia's potential \$13 billion annual opportunity by 2030.

### [ANZBIG Membership Flyer](#)

An easy way to introduce others to ANZBIG. This flyer outlines the benefits of joining our growing network of members — from access to industry insights and events to advocacy and collaboration opportunities.

## Launching the Portuguese Edition of The Farmers Guide at COP30!

We are thrilled to announce the launch of the Portuguese edition of The Farmers Guide at COP30! The event will take place on 19 November 2025 at 12:00 (Belém time, UTC-3) and will be streamed live on Embrapa's YouTube channel: [www.youtube.com/embrapa](https://www.youtube.com/embrapa)



## POLREG Working Group Update

The Policy and Regulation Workgroup, chaired by Russ Martin provided an update on ongoing lobbying work around thermal treatment of waste.

The NSW Government's new Waste and Circular Infrastructure Plan confirms a major policy shift recognising biochar and low-carbon fuels within the state's regulatory framework. The plan commits to amending the definition of "thermal treatment" in the Energy from Waste (EfW) framework to permit low-risk processes that provide clear environmental benefits. This includes thermal treatment of agricultural waste and anaerobic digestion residues to produce biochar, biogas, biomethane, and sustainable aviation fuel—consistent with prior submissions and advocacy in the Decoupling Policy Paper. The amendment, to be implemented through changes to the Protection of the Environment Operations (General) Regulation 2022, represents a tangible win for proponents of advanced resource recovery and aligns with the state's focus on sustainable circular economy practices. This change is significant for biochar project development and full credit goes to the POLREG team.

The ANZBIG Working Groups work on a range of projects to help build the Biochar Industry, we invite members to bring their expertise to these groups. If you would like more information on these groups please contact Advisory Board Chair Shaun Scallan on [shaun@anzbig.org](mailto:shaun@anzbig.org).



## Library

### Biochar for soil

[Overview of biochar role in remediating soil salinity stress in crops](#)

[Biochar and Compost as Sustainable Alternatives to Peat](#)

### Biochar for Pyrolysis

[Recovery of Fuel Oil from Hazardous Sludge Maritime Oil via Pyrolysis: Characterization and Compliance with National Fuel Standards](#)

### Wood Vinegar

[Using Wood Vinegar as a Natural Pesticide for Reducing Greenhouse Gases to Mitigate Climatic Change Effect Compared with That of Indoxacarb Against the Peach Fruit Fly](#)

## Member Benefits

Did you know? Members have access to a seven-year-old library full of reports and articles, past webinar and conference recordings plus a list of papers by category - learn more about ANZBIG memberships [HERE](#)

# Biochar Industry News



## Nuffield scholarship explores the benefits and viability of biochar usage

When Barossa Valley farmer Paul McGorman was originally announced as a 2024 Nuffield scholar, he had a very different idea of what his research would involve.

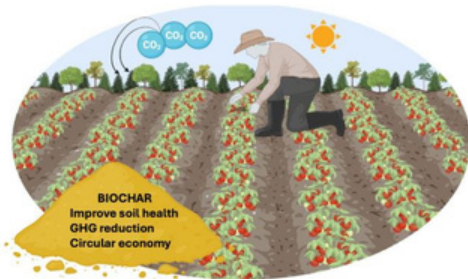
## BIOSORRA To Scale Biochar Production In Kenya With New \$3.5M In Seed Funding

Women-led carbon removal company BIOSORRA has secured \$3.5 million in seed funding that will power the scaling of its biochar operations in Kenya.

Led by atmosfair and Fondo Nimbus, the funding round will enable the expansion of BIOSORRA's reach in the tropics, where it works on facilitating the implementation of sustainable agriculture that results in soil benefits and atmospheric CO2 removal







## Turning Australia's food waste into biochar: a sustainable solution for climate and soil

Australia produces over 31 million tonnes of food waste each year, creating serious challenges for both the environment and the economy. Researchers at the University of New South Wales and their international partners have reviewed how converting food waste into biochar, a carbon-rich material produced by heating organic matter without oxygen, could help tackle the country's waste crisis while improving soil fertility and fighting climate change.

## Residual And Rainbow Team Up On Premium Quality Biochar Projects

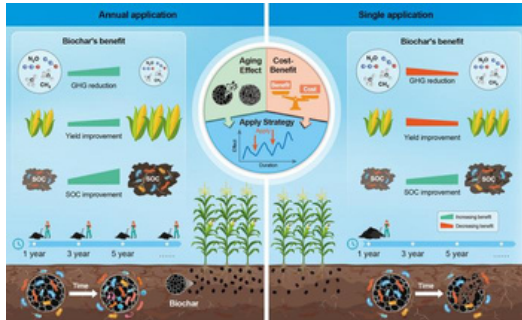
High-quality carbon dioxide removal (CDR) developer Residual has entered into a biochar-centered partnership with ICROA-endorsed carbon credit registry and standard Rainbow.

Residual and Rainbow are joining forces to deliver premium quality biochar credits to a market with high demand for this decarbonization pathway.

Under the collaboration, Residual, as a seasoned developer of high-quality CDR projects, will help get biochar initiatives off the ground.



# Carbo Culture Is Building A New Biochar Plant To Back The Dutch Food Industry.



Carbon removal company Carbo Culture has announced plans to launch a new biochar plant at the ECW Energy site in Middenmeer in North Holland.

The ambitious project, called ARC Middenmeer, will tackle atmospheric CO<sub>2</sub> emissions while producing biochar that will be applied at Dutch greenhouses and generating renewable energy to power their operations.

In detail, the facility is expected to be able to remove more than 20,000 tonnes of CO<sub>2</sub> on an annual basis while producing 40,000 m<sup>3</sup> of biochar and 16 MW of sustainable energy.

## Novocarbo Issues First CDR Credits From Biochar-Infused Asphalt Pilot

Hamburg-based CO<sub>2</sub> removal company Novocarbo has successfully issued the first carbon credits from its biochar-enhanced asphalt pilot deployment in Germany.

The verified high-quality credits, generated at the company's Carbon Removal Park Baltic Sea site, are now available on the market to buyers working towards sustainability goals.

The Novocarbo Carbon Removal Park Baltic Sea location was launched back in 2023 in Grevesmühlen, Germany.



# Industry Related News



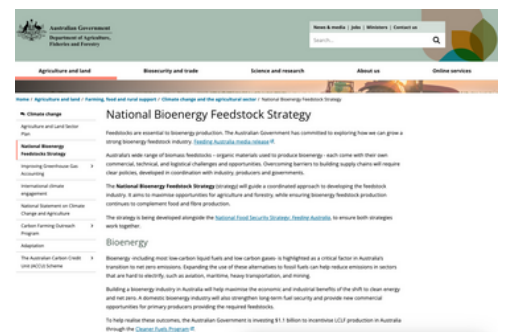
## CHAR Tech provides Thorold facility construction update and video

CHAR Technologies Ltd., a leader in sustainable energy solutions, is pleased to provide an update on construction progress at its Thorold Renewable Energy Facility. The project remains on track to complete construction of its commercial biocarbon production line by year-end, positioning the company to advance toward renewable natural gas (RNG) production in 2026.

## National Bioenergy Feedstock Strategy

Feedstocks are essential to bioenergy production. The Australian Government has committed to exploring how we can grow a strong bioenergy feedstock industry. [Feeding Australia media release](#).

Australia's wide range of biomass feedstocks – organic materials used to produce bioenergy – each come with their own commercial, technical, and logistical challenges and opportunities. Overcoming barriers to building supply chains will require clear policies, developed in coordination with industry, producers and governments.



## Mazda backs algae-based biofuels as path to carbon-negative motoring

Mazda believes the road to carbon-neutral motoring doesn't have to mean the end of the internal-combustion engine. Instead, the company is continuing work on algae-derived fuels, it says, that could power existing cars with net-zero or even negative carbon emissions.

Speaking at the 2025 Japan Mobility Show, Mazda CFO Jeff Guyton told Australian journalists the company's biofuel research aims to make petrol engines part of the long-term solution, not the problem.



## Transforming Australian Agriculture: 5 Years Of Collaboration And Innovation

Boosting productivity, reducing costs, and mitigating disease risks - this ARC Research Hub has redefined the future of Australian farming through AI and collaboration.

The ARC Research Hub for Driving Farming Productivity and Disease Prevention (the Hub) set out to tackle real-world challenges facing Australian farmers - from boosting productivity to preventing crop disease.





## Australia to offer three hours free solar per day to millions

Australia will offer at least three hours of free solar power every day to households including those without solar panels under an energy-saving programme that is expected to go live in 2026, energy minister Chris Bowen said on Tuesday.

The Solar Sharer programme will begin in the states of New South Wales and South Australia as well as southeast Queensland before it is expanded elsewhere.



## Delivering net zero

With a bold new target set for 2035, Australia is working double time to keep emissions down, and the key to success lies in the timely delivery of the energy transition.

In any construction site, last-minute changes and unforeseen problems can disrupt delivery plans, while unexpected hurdles and harsh weather can cause delays or damages to components, which increases costs and leads to project overruns. On the consumer side, with subsidies making batteries and solar PV more accessible to everyday Australians, many installers are booked out to the end of 2026.



# Events

## Biochar Industry Events

[IBI Events](#) 

<https://biochar-international.org/events/>

19 November 2025 - Online

Advanced Carbons - Opportunities for Biochar Producers

17-20 November, 2025 - Philippines

3rd International Symposium on Sustainable Biochar-SIPS 2025

17 - 19 September 2026 - Italy

3<sup>rd</sup> Edition of Global Conference on Biofuels and Bioenergy

## Industry Related Events

11-13 November, 2025 - Brisbane, Australia  
TropAg 2025

8 - 13 February, 2026 - Western Australia  
World Renewable Energy Congress XXV (WREC2026)

31 March - 2 April 2026 - Nashville, US  
International Biomass Conference & Expo

# Partnerships



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All Black Earth



**NSW Decarb Hub**

All the latest news from Decarb Hub

# International Links



## EUROPE

All the latest news from the European Biochar Industry

## NEW ZEALAND

All the latest news from the New Zealand Newsletter  
All Black Earth



## INTERNATIONAL BIOCHAR INITIATIVE

All the latest news from the International Biochar Initiative

## US Biochar Initiative

All the latest news from the US Biochar Initiative

